

FORM PTO-1380	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EQ/US) CONCERNING A FILING UNDER 35 U.S.C. 371	ATTORNEY'S DOCKET NUMBER: 99 P 5536 U.S. APPLN. NO. (If known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold; text-align: center;">09/744947</div> PRIORITY DATE CLAIMED: 23 June 1999 (23.06.99)
INTERNATIONAL APPLICATION NO.: PCT/DE00/01935	INTERNATIONAL FILING DATE: 14 June 2000 (14.06.00)	
TITLE OF INVENTION: METHOD FOR CAPPING AN ELECTRIC LAMP		
APPLICANT(S) FOR DO/EQ/US: Bernd PILHOEFER, et al.		

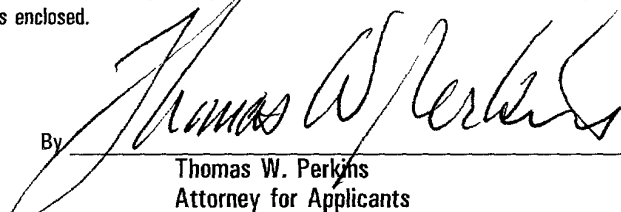
Applicant herewith submits to the United States Designated/Elected Office (DO/EQ/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☐ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau. (see attached copy of PCT/IB/308)
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ A translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Item 11. to 16. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☒ Other items or information:

Application Data Sheet

U.S. APPLICATION NO. (if known, see 37 CFR 1.51) 09/744947		INTERNATIONAL APPLICATION NO. PCT/DE00/01935		ATTORNEY'S DOCKET NO. 99 P 5536	
17. <input checked="" type="checkbox"/> The following fees are submitted: BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5)): Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO \$ 1,000.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO \$ 860.00 International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$ 710.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) \$ 690.00 International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) \$ 100.00 <div style="text-align: right;">ENTER APPROPRIATE BASIC FEE AMOUNT =</div>				CALCULATIONS PTO USE ONLY	
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	11 - 20 =	0	X \$18.00	\$	
Independent claims	2 - 3 =	0	X \$80.00	\$	
MULTIPLE DEPENDENT CLAIMS(S) (if applicable)			+ \$270.00	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	860
Reduction of 1/2 for filing by small entity, if applicable. Applicant claims Small Entity Status under 37 CFR 1.27.				\$	
SUBTOTAL =				\$	860
Processing fee of \$130 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.49(f)).				\$	
TOTAL NATIONAL FEE =				\$	860
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$	40
TOTAL FEES ENCLOSED =				\$	900
				Amount to be refunded:	
				charged:	
a.	<input checked="" type="checkbox"/>	A check in the amount of \$ <u>900</u> to cover the above fees is enclosed.			
b.	<input type="checkbox"/>	Please charge my Deposit Account No. 25-0120 in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.			
c.	<input checked="" type="checkbox"/>	The Commissioner is hereby authorized to charge any additional fees which may be required by 37 CFR 1.16 and 1.17, or credit any overpayment to Deposit Account No. 25-0120 . A duplicate copy of this sheet is enclosed.			
SEND ALL CORRESPONDENCE TO:					
Customer No.		By  Thomas W. Perkins Attorney for Applicants Registration No. 33,027			
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(978)750-2076 facsimile (978) 750-2045		January 31, 2001			

Docket 99 P 5536

PATENTS

IN THE UNITED STATES PATENT
AND TRADEMARK OFFICE

In re Application of

Bernd PILHOEFER
Ruediger DIEKMANN

International Application No.
PCT/DE00/01935

Serial No (Unknown)

International Filing Date:
14 June 2000

Filed herewith

METHOD FOR CAPPING AN ELECTRIC LAMP

PRELIMINARY AMENDMENT

Assistant Commissioner For Patents

Washington, D.C. 20231

Sir:

Prior to calculation of the filing fee please
amend the above-identified application as follows:

IN THE SPECIFICATION

Insert the enclosed Abstract as new page 11.

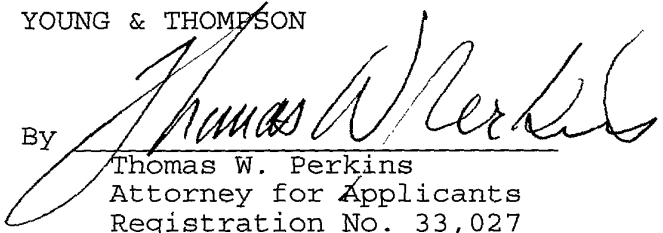
IN THE CLAIMS

Cancel Claim 10.

Respectfully submitted,

YOUNG & THOMPSON

By


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January 31, 2001

Abstract

The invention relates to a method for capping an electric lamp which has a lamp cap with at least one thermoplastic synthetic cap part (21). In particular, the invention relates to a method for cementless capping of a compact fluorescent lamp. According to the invention, the lamp vessel (1) is sealed with the aid of the thermoplastic synthetic cap part (21) by heating sections (101, 102) of the lamp vessel (1) above the softening point and preferably above the melting point of the thermoplastic, and introducing them into constricted cutouts (210) in the thermoplastic synthetic cap part (21). The heated lamp vessel sections (101, 102) soften or melt and displace the synthetic material in the region of the constricted cutouts (210). The lamp vessel (1) is embedded in the set synthetic in a self-closed fashion after the polymer melt has been allowed to set.

TOP SECRET

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09/744947
526 Rec'd PCT/PTO 31 JAN 2001

Method for capping an electric lamp

5

The invention relates to a method for capping an electric lamp in accordance with the preamble of Patent Claim 1.

10

I. Prior art

Such a method for capping an electric lamp is disclosed, for example, in European patent specification EP 0 455 884 B1. This patent
15 specification describes the capping of a high-pressure discharge lamp capped at one end, in the case of which a tubular extension of the discharge vessel is sealed in a thermoplastic synthetic cap part with the aid of a means capable of high-frequency-induced heating.

20

II. Summary of the invention

It is the object of the invention to specify a method for capping an electric lamp, which method is
25 simplified by comparison with the prior art.

This object is achieved according to the invention by means of the characterizing features of Patent Claim 1. Particularly advantageous designs of the invention are
30 described in the subclaims.

The capping method according to the invention can be applied to electric lamps which have a lamp cap provided with a thermoplastic synthetic cap part, and
35 at least one lamp vessel which is connected to the thermoplastic synthetic cap part by a fused bond. According to the invention, this fused bond is produced by heating sections or parts of the at least one lamp vessel to a point which is greater than or equal to the

softening point and, advantageously, greater than or equal to the melting point, of the thermoplastic synthetic cap part material, and by inserting the heated lamp vessel sections into at least one holder of the synthetic cap part, the dimensions of which holder are smaller than the corresponding external dimensions of the lamp vessel sections to be fastened in the holder. When the heated lamp vessel sections are being inserted into the at least one holder, the synthetic cap part material is softened or melts by contact with the heated lamp vessel sections, and the softened plastic or the polymer melt is displaced by the penetrating lamp vessel sections. In this way, the initially too narrow holder is widened and matched to the external dimensions of the lamp vessel sections penetrating into it. After the softened plastic or polymer melt has been allowed to set, the at least one lamp vessel is surrounded in a self-closed fashion by the set synthetic material. The set synthetic material advantageously forms a ring-shaped collar surrounding the at least one lamp vessel in a self-closed fashion. The ring-shaped collar enlarges the contact area between the at least one lamp vessel and the synthetic cap part and thereby increases the stability of the fused bond. In order for the production of the fused bond according to the invention to use up as little time as possible, the lamp vessel sections are preferably heated to a point which is even substantially above the melting point of the thermoplastic synthetic cap part material, but also substantially below the melting point of the discharge vessel.

In order to reduce the risk of the occurrence of cracks in the at least one lamp vessel during the sealing method according to the invention, before the heated lamp vessel sections are inserted into the at least one holder, the synthetic cap part is advantageously preheated to a point which is above room temperature

and below the softening point of the synthetic cap part material. It is advantageous to accelerate the setting of the plastic by cooling the sealing region, preferably by means of an airflow. In order to increase the strength of the fused bond, the at least one lamp vessel is advantageously provided with at least one indentation, and the heated lamp vessel sections are inserted into the at least one holder in such a way that the at least one indentation is embedded in the set synthetic material in a self-closed fashion after the setting of the plastic. The at least one holder is advantageously designed as a depression or cutout in the thermoplastic synthetic cap material, and the at least one lamp vessel is of U-shaped design, the limbs of the at least one U-shaped lamp vessel being sealed in a depression or a cutout in the synthetic cap part.

The capping method according to the invention can be applied with particular advantage in the case of fluorescent lamps which have a synthetic cap and a discharge vessel which comprises at least one U-shaped glass tube. Usually, with such fluorescent lamps, which are frequently also denoted as compact fluorescent lamps, the discharge vessel is fixed by means of a cement ring in a depression or a cutout in a cap-type synthetic cap part. Such a lamp is described, for example, in patent specification EP 0 452 743 B1. The application of the capping method according to the invention to the aforementioned fluorescent lamps permits cement to be dispensed with. The fluorescent lamp according to the invention is therefore distinguished by a lamp cap which has at least one thermoplastic synthetic cap part which has a permanent fused bond with the limbs of at least one U-shaped glass tube which is a constituent of the discharge vessel of the lamp. The at least one thermoplastic synthetic cap part is advantageously designed as a cap through which the limbs of the at least one U-shaped glass tube are led, and which has on the inside ring-

shaped collars which surround the limbs of the at least one U-shaped glass tube in a self-closed fashion. The cap advantageously closes off a lamp cap which is of pot-type design and in which a ballast is arranged for
5 operating the fluorescent lamp.

III. Description of the preferred exemplary embodiment

The invention is explained in more detail below with
10 the aid of a preferred exemplary embodiment. In the drawing:

Figure 1 shows a diagrammatic, partially sectioned
15 side view of a preferred exemplary embodiment of a fluorescent lamp according to the invention,

Figure 2 shows a diagrammatic and partially sectioned
20 representation of a detail of the thermoplastic synthetic cap part and of the lamp vessel before the sealing process,

Figure 3 shows a diagrammatic and partial
25 representation of a detail of the thermoplastic synthetic cap part and of the lamp vessel after the sealing process, and

Figure 4 shows a top view of a bushing through the
30 thermoplastic synthetic cap part in accordance with a second exemplary embodiment of the invention.

The capping method according to the invention is described below with the aid of a fluorescent lamp, in
35 particular with the aid of a compact fluorescent lamp. The application of the capping method according to the invention offers most advantages in conjunction with compact fluorescent lamps, but is not limited to this type of lamp. Figure 1 shows a fluorescent lamp

according to the invention in which use has been made
of the capping method according to the invention. This
fluorescent lamp is a so-called compact fluorescent
lamp which can be inserted into an E27 screw cap holder
5 as a substitute for a general-lighting service lamp.

This fluorescent lamp has a discharge vessel 1 which
comprises two U-shaped glass tubes 10, which are
connected to one another by a transverse web (not
10 illustrated) and of which only one is visible in the
side view of Figure 1. The discharge vessel 1 therefore
has only one discharge space. Moreover, the fluorescent
lamp has a synthetic cap 2 which comprises a pot-type
lower part 20 and a cap 21. Arranged in the lower part
15 20 is a mounting plate 3 on which virtually all the
components 4 of a ballast for operating the fluorescent
lamp are fastened. The lower part is provided,
furthermore, with a metal E27 screw cap shell 22. Power
is supplied to the ballast by means of two supply leads
20 23, 24 of which the first 23 is connected by a fuse 25
to the contact plate 26 of the screw cap, and the
second is connected to the cap shell 22. The cap 21 is
fastened on the lower part 21, and closes the cap 2. It
21 comprises the thermoplastic synthetic polybutylene
25 terephthalate B 4235 GF30. This synthetic has a glass
fibre component of approximately 30 per cent. It has a
melting point of 225 degrees Celsius, and its softening
point is at 210 degrees Celsius. The cap 21 has four
cutouts 210 through which in each case one limb 101,
30 102 of a U-shaped glass tube 10 is led. The limbs 101,
102 have sealed ends 101a, and form a permanent fused
bond with the cap 21. The limb 101 is provided with an
exhaust tube 105 which serves to evacuate the discharge
vessel 1. Located in the interior of the discharge
35 vessel 1 are two lamp electrodes 5 which serve to
generate a low-pressure gas discharge and which are
connected in each case to the ballast by two lamp
supply leads 6 projecting from the discharge vessel 1.

A part of the cap 21 with one of the four cutouts 210 is illustrated in Figures 2 and 3. The capping method according to the invention is described in more detail below with the aid of these figures. Each cutout 210 of the cap 21 is designed as a circular opening with a diameter which is constricted in steps. On the outside of the cap 21, the diameter of the cutout 210 is slightly larger than the outside diameter of the limb 101 of the U-shaped glass tube 10. On the inside of the cap 21, the cutout 210 has a diameter which is smaller by approximately 0.6 mm than the outside diameter of the limb 101 of the U-shaped glass tube 10. This stepped constriction of the cutout 210 is produced by a ring-shaped bead 211 on the inside of the cap 21. The limb 101 has two indentations 103, 104 situated opposite one another.

In order for the prefabricated discharge vessel 1, which is provided with the electrodes 5 and sealed in a gastight fashion, to be fixed in the cap 21, the cap 21 is preheated to a temperature of approximately 150 degrees Celsius, and the limbs 101, 102 of the U-shaped glass tubes 10 of the prefabricated discharge vessel 1 are heated in the region of their ends 101a, 102a to a temperature of approximately 350 degrees Celsius. The heated limbs 101, 102 are inserted, from the outside of the cap 21, into the corresponding openings 210 in the cap. The contact with the hot glass walls of the limbs 101, 102 softens and melts the synthetic material forming the beads 211. The softened and melted synthetic material is partially displaced by the limbs 101, 102, penetrating into the openings 210, of the U-shaped glass tube 10. As a result, the cutouts 210 are widened in the region of the beads 211 such that their diameter corresponds to the outside diameter of the limbs 101, 102. After being permitted to set, the displaced polymer melt forms a ring-shaped collar 212 which surrounds the limbs 101, 102 in a self-closed fashion. The limbs 101, 102 of the U-shaped glass tubes

10 are inserted so deeply into the cutouts 210 that the indentations 103, 104 are wetted by the polymer melt and are embedded in the set synthetic of the beads 211 or the collars 212 after setting of the polymer melt.

5 The mounting of the mounting plate 3 and of the components 4 of the ballast in the lower part 20, and the fitting of the cap shell 22 and its making contact with the supply leads 23, 24 are performed in the usual, known way. After the mounting of the mounting

10 plate 3 and the components 4 of the ballast, the structural unit composed of the cap 21 and the discharge vessel 1 is connected to the lower part 20.

The invention is not limited to the exemplary embodiment explained in more detail above. For example,

15 instead of the stepwise constricted cutouts 210, the cap 21 can also have conically constricted cutouts. Instead of being realized by beads 211, the constriction of the cutouts 210 can also be realized

20 with the aid of webs 211' or knobs (Figure 4) which extend radially into the respective bushing 210. Upon insertion of the heated sections of the discharge vessel 1, these webs 211' or knobs are melted and the polymer melt is displaced by the penetrating discharge

25 vessel 1. After the setting of the polymer melt, the discharge vessel 1 is sealed in the cap 21. It may be mentioned further at this juncture that a fused bond of sufficient strength is achieved even without the indentations 103, 104. The indentations 103, 104 are

30 required only when an exceptionally high strength is desired for the connection between the discharge vessel and cap.

The capping method according to the invention is not

35 limited to compact fluorescent lamps, but can, for example, also be applied to tubular fluorescent lamps, which are fitted with thermoplastic synthetic cap parts at their two ends, and to incandescent lamps whose caps have thermoplastic synthetic parts.

Patent Claims

1. Method for capping an electric lamp which has a lamp cap (2) provided with a thermoplastic synthetic cap part (21), at least one lamp vessel (1) and at least one illuminating means arranged in the at least one lamp vessel (1), the at least one lamp vessel (1) being sealed in the synthetic cap part (21) during the method, characterized in that the following method steps are carried out for the purpose of sealing the at least one lamp vessel (1) in the synthetic cap part (21):
- the synthetic cap part (21) is fitted with at least one holder (210) for fastening the at least one lamp vessel (1) in the synthetic cap part (21), the dimensions of which holder are smaller than the corresponding external dimensions of a section (101, 102), to be fastened in the at least one holder (210), of the at least one lamp vessel (1),
 - at least the section or sections (101, 102) of the at least one lamp vessel (1) is/are heated to a point which is at least as high as the softening point of the thermoplastic synthetic cap part material and less than the melting point of the lamp vessel material,
 - the heated section or sections (101, 102) of the at least one lamp vessel (1) is/are inserted into the at least one holder (210), the synthetic material of the synthetic cap part (21) being softened in the region of the at least one holder (210) by contact with the heated section or sections (101, 102) of the at least one lamp vessel (1), and being displaced by the at least one lamp vessel (1), and
 - the softened synthetic material is allowed to set.

2. Method according to Claim 1, characterized in that the section or sections (101, 102) of the at least one lamp vessel (1) is/are heated to a point which is at least as high as the melting point of the thermoplastic synthetic cap part material.
5
3. Method according to Claim 1, characterized in that before the heated section or sections (101, 102) or the at least one lamp vessel (1) is/are inserted into the at least one holder (210), the synthetic cap part (21) is preheated to a point which is above room temperature and below the softening point of the synthetic cap part material.
10
4. Method according to Claim 1, characterized in that the softened synthetic material is cooled to allow it to set.
15
5. Method according to Claim 4, characterized in that the cooling is performed by means of an air flow.
20
6. Method according to Claim 1, characterized in that the displaced and solidified synthetic material forms a collar (212) in the form of a ring around the at least one lamp vessel (1).
25
7. Method according to Claim 1, characterized in that the at least one lamp vessel (1) is provided with at least one indentation (103, 104), and the heated section or sections (101, 102) of the at least one lamp vessel (1) is/are inserted into the at least one holder (210) in such a way that at least one indentation (103, 104) is enclosed in the synthetic material after the softened synthetic material has been allowed to set.
30
35
8. Method according to Claim 1, characterized in that

- the at least one lamp vessel (1) comprises at least one U-shaped tube (10), and the section or sections is/are the limbs (101, 102) of the at least one U-shaped tube (10),
 - 5 - the at least one holder (210) is formed as a depression or cutout in the synthetic cap part (21), and
 - 10 - the diameter of the depression or of the cutout (210) is smaller than the outside diameter of the limbs (101, 102) of the at least one U-shaped tube (10).
9. Method according to Claim 1, characterized in that the synthetic cap part (21) is formed as a cap of
- 15 a pot-type lamp cap (2).
10. Use of the method in accordance with one or more of the preceding claims for the purpose of capping a fluorescent lamp.
- 20 11. Fluorescent lamp having a lamp cap (2) and a discharge vessel (1) which has at least one U-shaped glass tube (10), a permanent connection existing between the discharge vessel (1) and the lamp cap (2), characterized in that the lamp cap
- 25 (2) has at least one thermoplastic synthetic cap part (21) and the permanent connection is a fused bond between the thermoplastic synthetic cap part (21) and the limbs (101, 102) of the at least one
- 30 U-shaped glass tube (10).
12. Fluorescent lamp according to Claim 11, characterized in that the thermoplastic synthetic cap part (21) is designed as a cap through which
- 35 the limbs (101, 102) of the at least one U-shaped glass tube (10) are led, and which has collars (212) which are ring-shaped on the inside and surround the limbs (101, 102) of the at least one U-shaped glass tube (10) in a self-closed fashion.

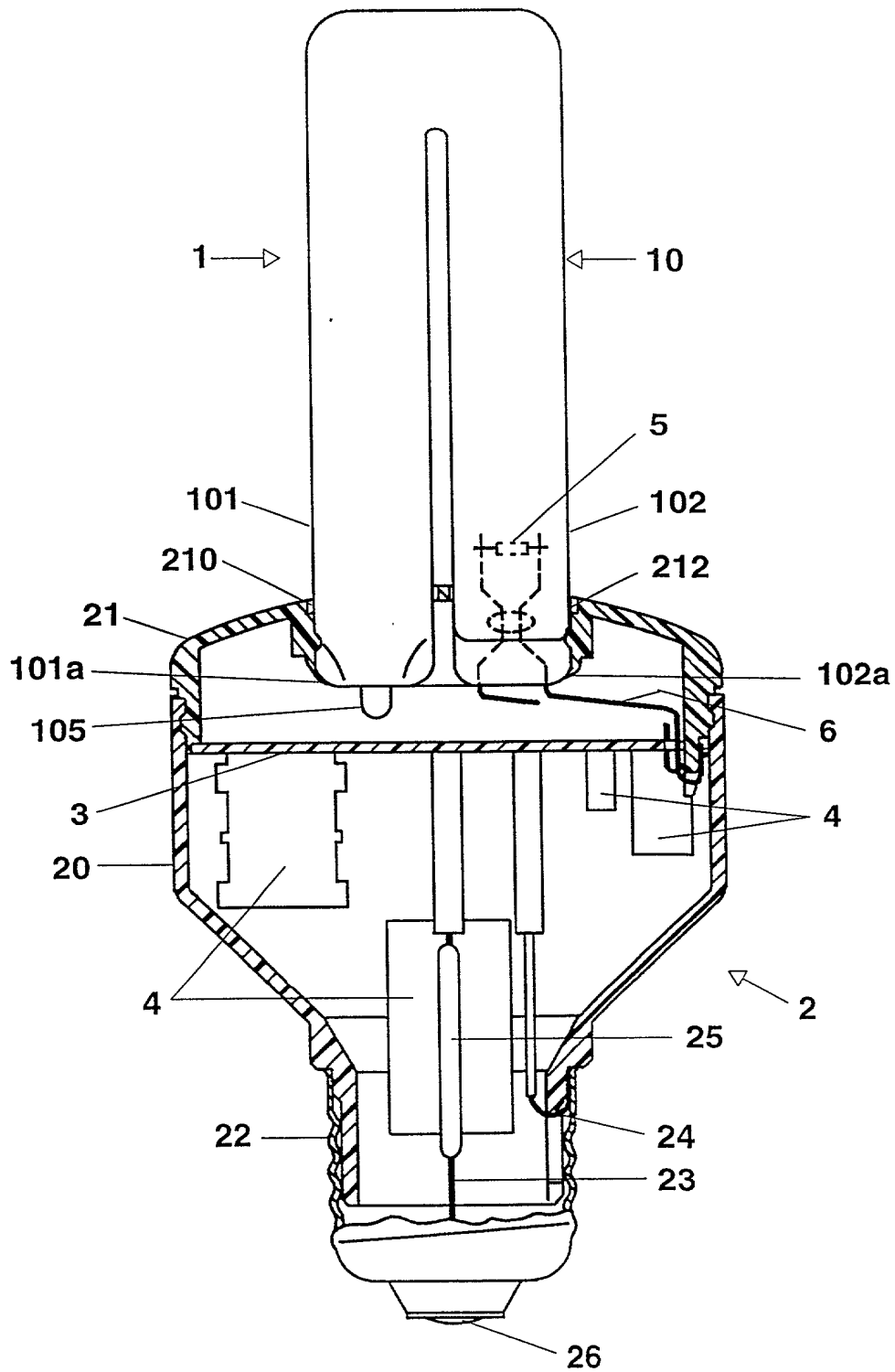


FIG. 1

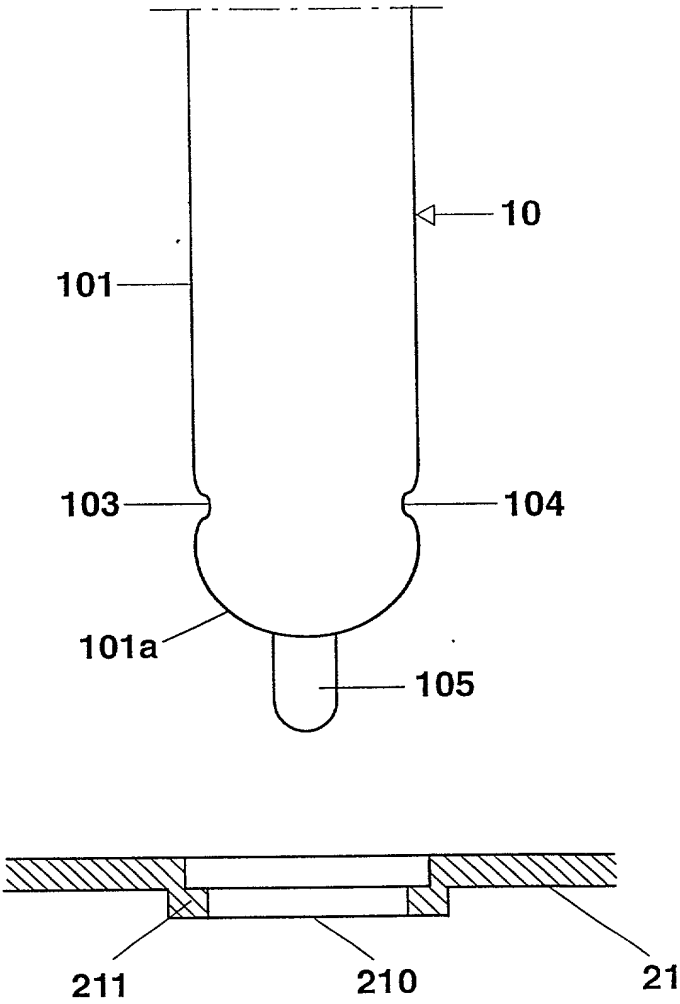


FIG. 2

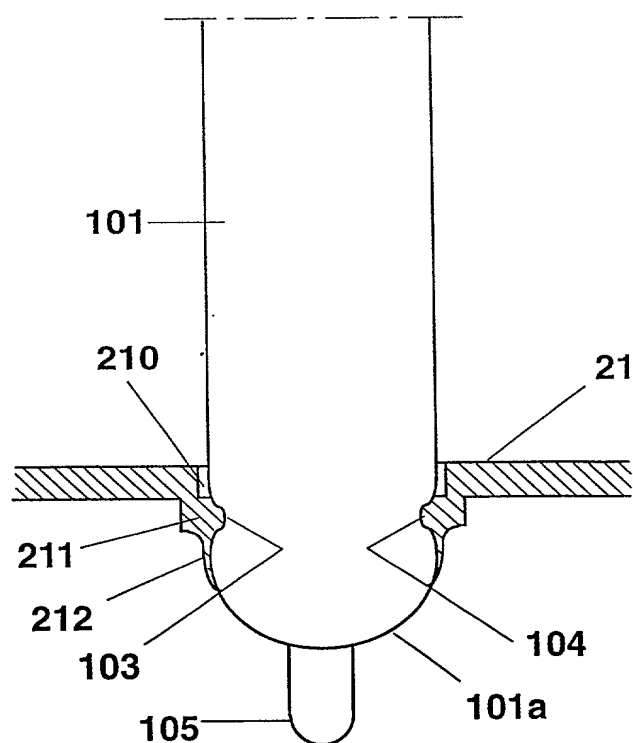


FIG. 3

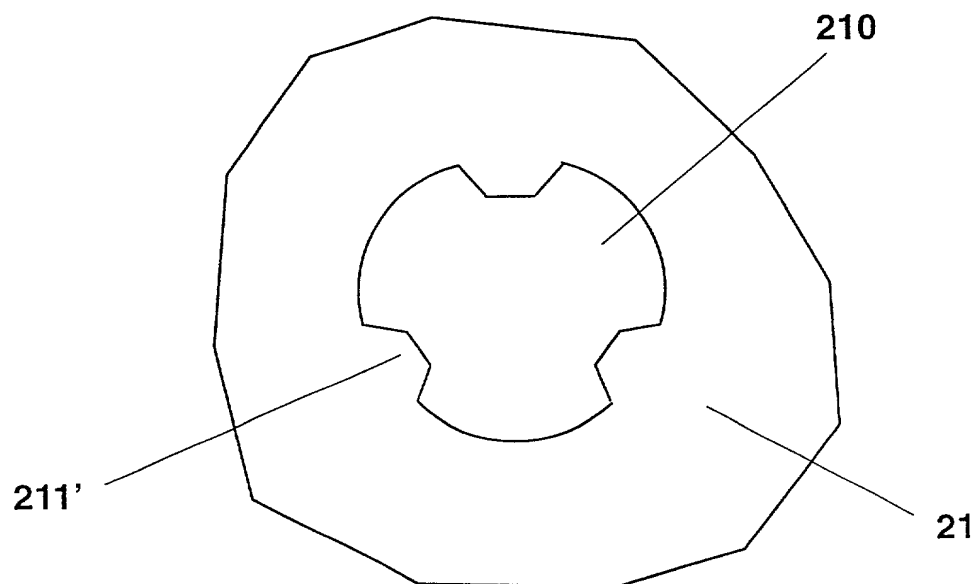


FIG. 4

As a below named inventor, I hereby declare that:
My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Method for capping an electric lamp

the specification of which (check only one item below):

- ☐ is attached hereto.
☐ was filed as United States application

Serial No. _____

on _____

and was amended

on _____ (if applicable).

- ☒ was filed as PCT international application

Number PCT/DE00/01935

on 14th June 2000

and was amended under PCT Article 19

on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

COUNTRY (if PCT, indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 USC 119
Germany	199 28 419.9	23th June 1999	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No
			<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

U.S. APPLICATIONS			STATUS (Check one)		
U.S. Application Number	U.S. Filing date		PATENTED	PENDING	ABANDONED

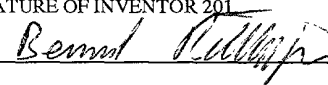
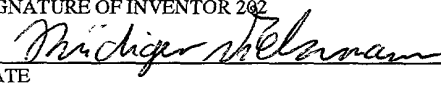
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)	PATENTED	PENDING	ABANDONED

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (List name and registration number) Carlo S. Bessone, Reg. No. 30,547; Robert F. Clark, Reg. No. 33,853; William E. Meyer, Reg. No. 30,719; and William H. McNeill, Reg. No. 24,426

Send Correspondence to: <u>OSRAM-SYLVANIA Inc.</u> <u>100 Endicott Street</u> <u>Danvers, MA 01923</u>	Direct Telephone Calls to: (name and telephone number) Tel.: (508) 750-2076 Fax.: (508) 750-2045
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201	FULL NAME OF INVENTOR	FAMILY NAME <u>PILHOEFER</u>	FIRST GIVEN NAME <u>Bernd</u>	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY <u>Graben</u>	STATE OR FOREIGN COUNTRY <u>Federal Republic of Germany</u>	COUNTRY OF CITIZENSHIP <u>Federal Republic of Germany</u>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <u>Sanddornstr. 24</u>	CITY <u>D-86836 Graben</u>	STATE & ZIP CODE/COUNTRY <u>Federal Republic of Germany</u>
202	FULL NAME OF INVENTOR	FAMILY NAME <u>DIEKMANN</u>	FIRST GIVEN NAME <u>Ruediger</u>	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY <u>Dillingen</u>	STATE OR FOREIGN COUNTRY <u>Federal Republic of Germany</u>	COUNTRY OF CITIZENSHIP <u>Federal Republic of Germany</u>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <u>Winterthurer-Weg 7</u>	CITY <u>D-89407 Dillingen</u>	STATE & ZIP CODE/COUNTRY <u>Federal Republic of Germany</u>
203	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201 	SIGNATURE OF INVENTOR 202 	SIGNATURE OF INVENTOR 203
DATE <u>19. 12. 2000</u>	DATE <u>19. Dez. 2000</u>	DATE